

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"10579785"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 12:34
S2	217	464/102	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:10
S3	67	464/103	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:18
S4	28	S3 NOT S2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:19
S5	102	464/104	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:21
S6	32	S5 NOT (S2 S3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:21
S7	55	464/105	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:27
S8	15	S7 NOT (S2 S3 S5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:27

S9	24	464/110	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:28
S10	18	S9 NOT (S2 S3 S5 S7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:28
S11	63	464/15	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:29
S12	60	S11 NOT (S2 S3 S5 S7 S9)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:29
S13	74	464/902	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:34
S14	71	S13 NOT (S2 S3 S5 S7 S9 S11)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:35
S15	300	(US-20050086991-\$ or US-20060142694-\$). did. or (US-5339376-\$ or US-5524562-\$ or US- 4299534-\$ or US- 4345849-\$ or US- 4359234-\$ or US- 4456414-\$ or US- 4484899-\$ or US- 4489486-\$ or US- 4556922-\$ or US- 4630878-\$ or US- 4790441-\$ or US- 4811685-\$ or US- 4811965-\$ or US- 4869079-\$ or US- 4916458-\$ or US- 4929135-\$ or US- 4951450-\$ or US- 5024102-\$ or US- 5257150-\$ or US- 5335961-\$ or US-	US-PGPUB; USPAT	OR	OFF	2009/02/06 13:42

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5695223-\$ or US-
5752887-\$ or US-
5836727-\$ or US-
5852693-\$ or US-
5894901-\$).did. or (US-
5997342-\$ or US-
6036716-\$ or US-
6073309-\$ or US-
7021096-\$ or US-
3585883-\$ or US-
3653467-\$ or US-
3911238-\$ or US-
3897192-\$ or US-
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3870332-\$ or US-
3836178-\$ or US-
3830380-\$ or US-
3830186-\$ or US-
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4013003-\$ or US-
4018451-\$ or US-
4027605-\$ or US-
4039203-\$ or US-
4050715-\$ or US-
4051959-\$ or US-
4146246-\$ or US-
4149736-\$ or US-
4125000-\$ or US-
4244504-\$ or US-
4244136-\$ or US-
4251212-\$ or US-
4251176-\$).did. or (US-
4253076-\$ or US-
4255096-\$ or US-
4254967-\$ or US-
4257161-\$ or US-
4257618-\$ or US-
4269428-\$ or US-
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4272033-\$ or US-
4273088-\$ or US-
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4284291-\$ or US-
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4295185-\$ or US-

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4307636-\$ or US-
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4318629-\$ or US-
4320907-\$ or US-
4320951-\$ or US-
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4330244-\$ or US-
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4359100-\$ or US-
4359154-\$ or US-
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4364470-\$ or US-
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4442907-\$ or US-
4443127-\$ or US-
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4450604-\$ or US-
4452290-\$ or US-
4453051-\$ or US-
4452592-\$ or US-
4453345-\$ or US-
4456041-\$ or US-
4458793-\$ or US-
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4464996-\$ or US-
4467157-\$ or US-
4467902-\$ or US-
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4844482-\$ or US-
4848259-\$ or US-
4852558-\$ or US-
4854812-\$ or US-
4854814-\$ or US-
4857943-\$ or US-

		4861306-\$ or US- 4867253-\$ or US- 4869112-\$ or US- 4871020-\$ or US- 4874378-\$ or US- 4875529-\$).did. or (US- 4875573-\$ or US- 4878571-\$).did.				
S16	297	S15 NOT (S2 S3 S5 S7 S9 S11 S13)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:44
S17	75	"464" AND ball AND gothic AND arch	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/06 13:55
S18	6777	(nozaki-t\$6 hakamata-h \$6 sone-k\$6 hayama- \$8).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/06 14:12
S19	242	S18 AND ball	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/06 14:12
S20	1	(11/987963).APP.	USPAT; USOCR	OR	OFF	2009/02/06 14:31
S21	3	("4384859" "5035677" "5092826").PN. OR ("7458897").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/06 14:33
S22	14	("1352864" "1514795" "2343244" "4252227" "5941134" "5976020" "6067876" "6109134" "6128972").PN. OR ("6238293").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/06 14:34
S23	25	("1692978" "2205401" "2398261" "2567125" "2814187" "4359985" "4465172" "4800996" "5295411" "5557984" "5819598").PN. OR ("6109134").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/06 14:37

S24	5	("2343244").URPN.	USPAT	OR	OFF	2009/02/06 14:39
S25	7	("4955330" "6502537" "6510826" "6561149" "6672264").PN. OR ("6805082").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/06 14:42
S26	16	("0535738" "4046239" "4131188" "4191279" "4519373" "4714803" "4771864").PN. OR ("5052518").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/06 14:42
S27	23	(US-20070270229-\$ or US-20080096675-\$). did. or (US-5911566-\$ or US-6238293-\$ or US- 6805082-\$ or US- 5052518-\$ or US- 7416199-\$ or US- 7097567-\$ or US- 7094155-\$ or US- 6910970-\$ or US- 6783278-\$ or US- 6497622-\$ or US- 5230659-\$ or US- 4799803-\$ or US- 7458897-\$ or US- 6109134-\$ or US- 2343244-\$).did. or (EP- 1715205-\$ or WO- 2005061256-\$ or WO- 2005050042-\$).did. or (JP-2007162811-\$ or JP-2006083933-\$ or JP- 2005207484-\$).did.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2009/02/06 14:52
S28	0	S27 AND rubber and teflon	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 14:53
S29	1	S27 AND rubber	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 14:53
S30	2782	pin and sleeve and rubber and teflon	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 14:57

S31	145	pin and sleeve and rubber and teflon and damper	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 14:58
S32	41425	rubber and fluorine	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 15:23
S33	10750	rubber same fluorine	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 15:23
S34	8093	rubber with fluorine	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 15:23
S35	791	(rubber with fluorine) and sleeve	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 15:24
S36	148	(rubber with fluorine) and sleeve and torque	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 15:25
S37	9	("5128196" "5301073" "5601176" "5697261" "6045448" "6200221" "6705181" "6722993" "6770592").PN. OR ("7048661").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/06 15:27
S38	30	(rubber with fluorine) and sleeve and pin and torque	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 15:59
S39	504284	(rubber with fluorine) torque	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 16:06

S40	498916	(rubber adj fluorine) torque	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 16:06
S41	229	(rubber adj fluorine) and torque	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 16:06
S42	531	"464" AND ball AND flat AND arch	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/06 16:26
S43	511	S42 NOT S17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/06 16:26
S44	161	"464" AND ball AND flat AND arch AND torque	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/06 16:28
S45	148	S44 NOT S17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/06 16:28
S46	133	"464" AND ball AND recess AND arch AND torque	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/06 16:31
S47	120	180/259	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 11:54
S48	67	464/103	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 13:02
S49	102	464/104	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 13:15

S50	67	464/103	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 13:32
S51	0	02-1131123	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 14:13
S52	0	"021131123"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 14:13
S53	0	"21131123"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 14:13
S54	5	"1131123"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 14:13
S55	31	(US-20070270229-\$ or US-20080096675-\$ or US-20020053836-\$). did. or (US-5911566-\$ or US-6238293-\$ or US- 6805082-\$ or US- 5052518-\$ or US- 7416199-\$ or US- 7097567-\$ or US- 7094155-\$ or US- 6910970-\$ or US- 6783278-\$ or US- 6497622-\$ or US- 5230659-\$ or US- 4799803-\$ or US- 7458897-\$ or US- 6109134-\$ or US- 2343244-\$ or US- 6945338-\$ or US- 6370772-\$ or US- 7048661-\$ or US- 5915147-\$ or US- 4611373-\$ or US- RE32830-\$ or US- 5509855-\$).did. or (EP- 1715205-\$ or WO- 2005061256-\$ or WO-	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2009/02/13 15:01

		2005050042-\$).did. or (JP-2007162811-\$ or JP-2006083933-\$ or JP-2005207484-\$).did.				
S56	4	S55 AND (lube lubrication lubricant grease)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 15:02
S57	2	"20020077186"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 15:08
S58	8	"2114259"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 15:09
S59	31	(US-20070270229-\$ or US-20080096675-\$ or US-20020053836-\$). did. or (US-5911566-\$ or US-6238293-\$ or US-6805082-\$ or US-5052518-\$ or US-7416199-\$ or US-7097567-\$ or US-7094155-\$ or US-6910970-\$ or US-6783278-\$ or US-6497622-\$ or US-5230659-\$ or US-4799803-\$ or US-7458897-\$ or US-6109134-\$ or US-2343244-\$ or US-6945338-\$ or US-6370772-\$ or US-7048661-\$ or US-5915147-\$ or US-4611373-\$ or US-RE32830-\$ or US-5509855-\$).did. or (EP-1715205-\$ or WO-2005061256-\$ or WO-2005050042-\$).did. or (JP-2007162811-\$ or JP-2006083933-\$ or JP-2005207484-\$).did.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2009/02/13 17:25

S60	3	S59 AND (hardening)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 17:25
S61	8558	"464" AND (surface same hard\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 17:27
S62	7	"464/103" AND (surface same hard\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 17:27
S63	1446	"464" AND (surface same hard\$5) AND torque	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 17:29
S64	803	"464" AND (surface same hard\$5) AND torque AND coupling	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 17:29
S65	144	"464" AND (surface same hard\$5) AND torque AND coupling AND balls	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 17:30
S66	14	(464/102 464/103 464/104 464/105 464/15 464/902) AND (surface same hard\$5) AND torque AND coupling	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 17:38
S67	3	(464/102 464/103 464/104 464/105 464/15 464/902) AND (hardening) AND torque AND coupling	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 17:40
S68	101	"464" and (surface adj hardening)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 17:40

S69	1	"20020068639".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 17:43
S70	5	("2343244").URPN.	USPAT	OR	OFF	2009/02/14 10:01
S71	505	411/44	USPAT	OR	OFF	2009/02/14 10:04
S72	198	411/44 AND plate	USPAT	OR	ON	2009/02/14 10:07
S73	7384	(surface adj treatment) and friction	USPAT	OR	ON	2009/02/14 10:17
S74	2235	S73 and coupling	USPAT	OR	ON	2009/02/14 10:17
S75	1413	S74 and plate	USPAT	OR	ON	2009/02/14 10:18
S76	784	S75 and coefficient	USPAT	OR	ON	2009/02/14 10:18
S77	330	rubber and flourine	USPAT	OR	ON	2009/02/14 10:24
S78	23052	rubber and fluorine	USPAT	OR	ON	2009/02/14 10:25
S79	90	(rubber adj matrix) and fluorine	USPAT	OR	ON	2009/02/14 10:25
S80	953	"464"/\$3 and lubricant and groove	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 08:55
S81	5	"464"/103 and lubricant and groove	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 08:55
S82	481	"464"/\$3 and lubricant and groove and ball	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 09:09
S83	400	"464"/\$3 and lubricant and groove and ball and contact	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 09:11

S84	228	"464"/\$3 and lubricant and groove and ball and contact and friction	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 09:16
S85	117	"464"/\$3 and (lubricant same friction) and groove and ball and contact	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 09:20
S86	132	"464"/\$3 and (lubricant same friction) and groove and ball	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 09:26
S87	15	S86 not S85	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 09:26
S88	82	"464"/\$3 and (lubricant same friction) and (groove same ball)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 09:37
S89	3045	(lubricant same friction) and (groove same ball)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 10:15
S90	832	(lubricant same friction) and (groove same ball) and coupling	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 10:15
S91	12299	lubricant and friction and (boot or seal) and groove	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 10:41
S92	867	lubricant and friction and (boot or seal) and groove and "464"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 10:42
S93	12	("4128279" "4262974" "4552416").PN. OR ("4648726").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/17 11:20

S94	1	"6755291".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/17 11:34
S95	53	(bolt connection) and (sleeve anchor) and flourine	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/17 11:53
S96	512	411/44	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/17 12:06
S97	1	"20030106758".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/17 12:08
S98	29	("0508254" "1120367" "1349437" "1953636" "1957533" "2513193" "2525198" "2542967" "2612376" "3974734" "4020735" "4078471" "4322194" "4840522" "4978264" "5106225" "5263802" "5816759" "6048149" "6416267").PN. OR ("6629808").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/17 12:23
S99	199	411/44 and plate	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/17 12:26
S100	1	"20020068639".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/17 12:40
S101	12	(rubber adj fluorine) and bolt and sleeve	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/17 12:58
S102	359	(rubber adj fluorine) and sleeve	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/17 13:26
S103	917	(rubber adj fluoro)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/17 14:08

S104	2	(fluro adj rubber) and bolt	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/17 14:43
S105	7	(fluro adj rubber) and screw	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/17 14:44
S106	1	(fluro adj rubber) and fastener	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/17 14:45
S107	0	(fluro adj rubber) and anchor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/17 14:47
S108	0	(fluro adj rubber) and sleeve	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/17 14:47
S109	13	("3388638" "3703125" "4214507" "4727795" "4790726" "4821627" "5070971" "5249649" "5484041" "5992948" "6085636").PN. OR ("6609454").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/17 15:18
S110	1429	viton and sleeve	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/17 15:18
S111	208	viton and sleeve and bolt	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/17 15:18
S112	220	464/102	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/08/12 13:40
S113	69	464/103	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/08/12 13:40

S114	103	464/104	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/08/12 13:40
S115	56	464/105	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/08/12 13:41
S116	24	464/110	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/08/12 13:41
S117	67	464/15	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/08/12 13:41
S118	74	464/902	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/08/12 13:41
S119	82	@PY>="2006" AND (S112 S113 S114 S115 S116 S117 S118)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/08/12 13:42

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